

CHALLENGES IN EXCHANGING DATA BETWEEN TSOS CORESO'S EXPERIENCE



François BOULET, CEO

Agenda

Coreso: key elements

Technical challenges

Other challenges



RGI Workshop - 22/06/2012

2

Coreso: a centralized vision of the coordination between TSOs

- Independent company (SA) with its own employees
- Created december 2008 in Brussels
- Operational since 16th February 2009
- 5 shareholders today (Elia, National Grid, RTE, Terna, 50HzT.) and open to new partners



coreso



RGI Workshop - 22/06/2012

3

Coreso: a service provider to TSOs

- **Coordination services** (to shareholder TSOs)
 - Relaying significant information between TSOs
 - Pro-active assessment of the security level of the network (day ahead, intraday and close to real time forecast)
 - Proposing coordinated actions to TSOs to manage the risks
 - Coordinating the agreement on remedial actions

Operational decisions remain with the TSOs

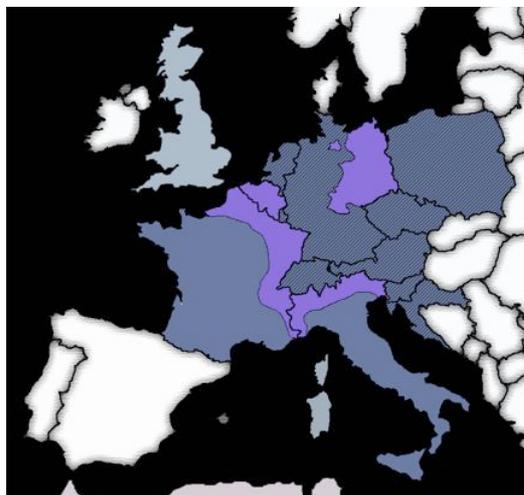
coreso

RGI Workshop - 22/06/2012

4

Coreso's area of activities

- **Interest Area** : the grid of its participating TSOs impacted by cross-border flows
- **Observability Area**: security analysis on a larger area including neighbouring grids
- **Data** of the full Continental Europe grid thanks to DACF files.



coreso

RGI Workshop - 22/06/2012

5

From the field...





Key elements

- Requirements
 - For study: detailed information across Europe is required
 - For awareness: a few data may be sufficient
 - Database management is anything but simple
 - Forecast information but also real-time information
- Principles
 - Data are owned by TSOs
 - TSOs need updated information for their own needs
 - No control → No SCADA → no complex database management

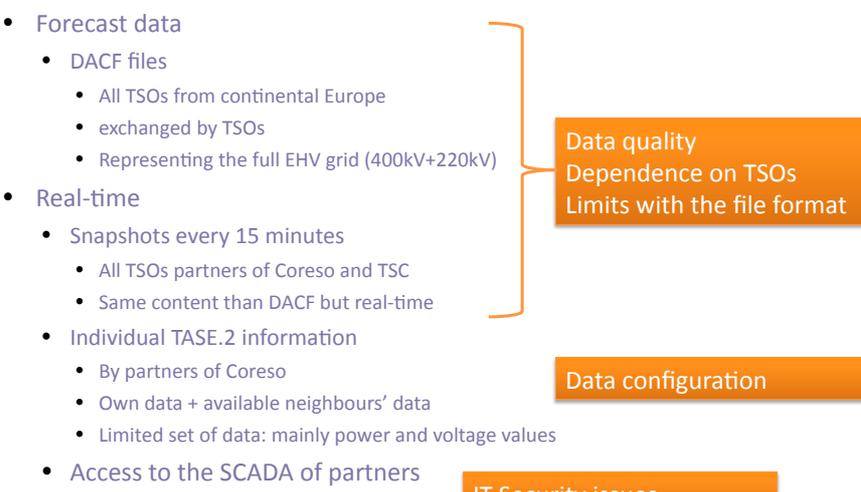
Data used

- Forecast data
 - DACF files
 - All TSOs from continental Europe
 - exchanged by TSOs
 - Representing the full EHV grid (400kV+220kV)
- Real-time
 - Snapshots every 15 minutes
 - All TSOs partners of Coreso and TSC
 - Same content than DACF but real-time
 - Individual TASE.2 information
 - By partners of Coreso
 - Own data + available neighbours' data
 - Limited set of data: mainly power and voltage values
 - Access to the SCADA of partners

Data quality
Dependence on TSOs
Limits with the file format

Data configuration

IT Security issues



coreso

RGI Workshop - 22/06/2012 9

Further perspective

- Coreso is involved in 2 research projects.
 - Twenties: demonstrate new technologies in order to increase a safe wind power generation within the European electricity system.
 - iTesla: develop and validate an open interoperable toolbox which will bring support to future operations of the pan-European electricity transmission network.
- Creation and participation in ENTSO-E Task Force dedicated to Operation Data Quality
- Move from UCTE-DEF to CIM-XML format
 - Will allow more complete description of the grid

coreso

RGI Workshop - 22/06/2012 10

Other challenges: Coreso is a new concept

- Disturbance of the existing way of working
=> Different visions, political difficulties
- Now a MoU is signed by all TSOs involved in both Coreso and TSC and we are collaborating on data exchanges and data quality
 - Snapshots, IDCF, synchronisation of our processes...



RGI Workshop - 22/06/2012

11

Other challenges: confidentiality

- Regarding other TSOs data
 - Coreso is not a TSO
 - ENTSO-E policies and MLA were written before Coreso
 - Specific confidentiality agreements do exist
- Regarding generators
 - Confidentiality agreements exist in all countries
 - Stability studies require a lot of detailed data
- To be tackled in Network Codes
 - Generator detailed data should be available to TSOs
 - Free exchange of technical data between TSOs
 - Entities like Coreso should have access to the relevant data



RGI Workshop - 22/06/2012

12

Conclusion

- We are currently able to work with a rather good quality of data.
- Much more data must be exchanged in the future.
- Confidentiality of data is always going against transparency.
- Redaction of Network Code is a good opportunity to tackle such issues once and for all.



RGI Workshop - 22/06/2012

13

Questions



See our Web site: www.coreso.eu



RGI Workshop - 22/06/2012

14